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grouped state, wherein when an editing command such as dividing, linking, and erasing the predetermined programs or groups recorded on the recording medium is executed, management data is edited to perform the editing command. The invention provides a solution to meet this request by a recording medium, an editing method and an editing apparatus.-

IN THE CLAIMS

Please amend claims 1-32 by rewriting same to read as follows:

-1. (Amended) A recording medium in which a plurality of programs are collected into a plurality of groups and are managed and recorded, comprising:

a program recording area in which the programs are recorded;

a first management data recording area in which first management data for supervising program names of the plurality of programs is recorded; and

a second management data recording area in which the names of the programs collected in the plural groups and names of the groups are correlated and are recorded as second management data with separating information for separating the program names and the group names.

--2. (Amended) The recording medium according to claim

1, wherein the second management data recorded in the second management data recording area includes a plurality of group information made up of program numbers, the group names, and the separating information, wherein information corresponding to each of the plurality of groups is partitioned by partitioning information.

--3. (Amended) The recording medium according to claim 1, wherein a name identifying the recording medium is further recorded in the second management data recording area.

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--4. (Amended) An editing apparatus for editing a program recorded on a recording medium that includes a program area for recording a plurality of programs and a management area within which is recorded first management data for managing program names for the plurality of recorded programs and [second management data including range information of program numbers making up each of a plurality of groups into which the plurality of recorded programs are collected, special codes partitioning the groups and group names, comprising:

operating means for [commanding a change in a sequence of predetermined groups of the plurality of groups;] and

editing means for editing a correlation of the range information and the group names to cause block movement of the predetermined groups when the change is commanded by the operating means.

--5. (Amended) The editing apparatus according to claim 4, wherein

the program names in the first management data are managed corresponding to the program numbers of the plurality of programs, and

when the change in the sequence of the predetermined groups is commanded by the operating means the correlation between the program numbers in the first management data and the program numbers is concomitantly edited.

--6. (Amended) An editing apparatus for editing a program recorded on a recording medium that includes a program area for recording a plurality of programs and a management area within which is recorded first management data for managing program names for the plurality of recorded programs and second management data including range information of program numbers making up each of a plurality of groups into which the plurality of recorded programs are collected, special codes partitioning the groups and group names, comprising:

operating means for commanding a division of a predetermined program of the plurality of programs and predetermined groups of the plurality of groups; and

editing means for editing a correlation of the range information and the group names when the division is commanded by the operating means.

--7. (Amended) The editing apparatus according to claim 6, wherein the program names in the first management data are managed in association with the program numbers of each of the plurality of programs, and when the division is commanded by the operating means the correlation between the program numbers and the program names is concomitantly edited.

--8. (Amended) The editing apparatus according to claim 6, wherein

the editing means further edits the range of the program numbers forming a group following the predetermined group containing the predetermined program commanded to be divided.

--9. (Amended) An editing apparatus for editing a program recorded on a recording medium that includes a program area for recording a plurality of programs and a management area within which is recorded first management data for managing program names for the plurality of recorded programs and second management data including range information of program numbers making up each of a plurality of groups into which the plurality of recorded programs are collected, special codes partitioning the groups and group names, comprising:

operating means for commanding a linking of two of the programs in a predetermined group of the plurality of groups; and

editing means for editing a correlation of the range

information and the group names when the linking is commanded by the operating means.

--10. (Amended) The editing apparatus according to claim 9, wherein the program names in the first management data are managed corresponding to the program numbers of the plurality of programs, and when the linking is commanded by the operating means, the correlation between the program numbers and the program names is concomitantly edited.

--11. (Amended) An editing apparatus for editing a program recorded on a recording medium that includes a program area for recording a plurality of programs and a management area within which is recorded first management data for managing program names for the plurality of programs and second management data including range information of program numbers making up each of a plurality of groups into which the plurality of recorded programs are collected, special codes partitioning the groups and group names, comprising:

operating means for commanding a division of a predetermined group of the plurality of groups into two groups; and

editing means for editing a correlation of the range information and the group names when the division is commanded by the operating means.

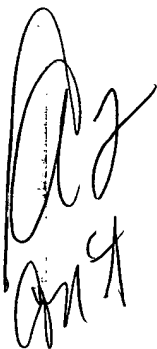
--12. (Amended) The editing apparatus according to claim

11, wherein

when the division is commanded by the operating means, a group name of the predetermined group is assigned to one of the two groups resulting from the division.

--13. (Amended) The editing apparatus according to claim 12, wherein

when the division is commanded by the operating means, a group name of an other of the two groups resulting from the division is blank.


--14. (Amended) An editing apparatus for editing a program recorded on a recording medium that includes a program area for recording a plurality of programs and a management area within which is recorded first management data for managing program names for the plurality of recorded programs and second management data including range information of program numbers making up each of a plurality of groups into which the plurality of recorded programs are collected, special codes partitioning the groups and group names, comprising:

operating means for commanding a linking of predetermined groups of the plurality of groups; and

editing means for editing a correlation of the range information and the group names to cause block movement of the predetermined groups when the linking is commanded.

--15. (Amended) The editing apparatus according to claim 14, wherein

when the linking is commanded by the operating means, a group name of a first group of the predetermined groups is assigned to the group resulting from the linking.

--16. (Amended) The editing apparatus according to claim 14, wherein

when the linking is commanded by the operating means, a group name of a last group of the predetermined groups is assigned to the group resulting from the linking.

--17. (Amended) The editing apparatus according to claim 14, wherein

when the linking is commanded by the operating means, a group name of a first group of the predetermined groups and a group name of a last group of the predetermined groups are linked and assigned to the group resulting from the linking.

--18. (Amended) An editing apparatus for editing a program recorded on a recording medium that includes a program area for recording a plurality of programs and a management area within which is recorded first management data for managing program names for the plurality of recorded programs and second management data including range information of program numbers making up each of a plurality of groups into which the plurality of recorded programs are collected,

special codes partitioning the groups and group names,
comprising:

operating means for commanding a block erasure of
predetermined groups of the plurality of groups; and

editing means for editing a correlation of the range
information and the group when the block erasure is commanded.

--19. (Amended) An editing method for editing a program
recorded on a recording medium that includes a program area
for recording a plurality of programs and a management area
within which is recorded first management data for managing
program names for the plurality of recorded programs and
second management data including range information of program
numbers making up each of a plurality of groups into which the
plurality of recorded programs are collected, special codes
partitioning the groups and group names, comprising the steps
of:

commanding a change in a sequence of predetermined groups
of the plurality of groups; and

editing a correlation of the range information and the
group names to cause block movement of the predetermined
groups when the change is commanded.

--20. (Amended) The editing method according to claim
19, wherein

the program names in the first management data are
managed corresponding to the program numbers of the plurality

of programs; and

when the change is commanded, the correlation between the program numbers in the first management data and the program numbers is concomitantly edited.

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--21. (Amended) An editing method for editing a program recorded on a recording medium that includes a program area for recording a plurality of programs and a management area within which is recorded first management data for managing program names for the plurality of recorded programs and second management data including range information of program numbers making up each of a plurality of groups into which the plurality of recorded programs are collected, special codes partitioning the groups and group names, comprising the steps of:

commanding a division of a predetermined program of predetermined groups of the plurality of groups; and

editing a correlation of the range information and the group names when the division is commanded.

--22. (Amended) The editing method according to claim 21, wherein the program names in the first management data are managed corresponding to the program numbers of the plurality of programs, and the correlation between the program numbers and the program names is concomitantly edited when the division is commanded.

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--23. (Amended) An editing method for editing a program recorded on a recording medium that includes a program area for recording a plurality of programs and a management area within which is recorded first management data for managing program names for the plurality of recorded programs and second management data including range information of program numbers making up each of a plurality of groups into which the plurality of recorded programs are collected, special codes partitioning the groups and group names, comprising the steps of:

commanding a linking of two of the programs making up a predetermined group of the plurality of groups; and

editing a correlation of the range information and the group names when the linking is commanded.

--24. (Amended) The editing method according to claim 23, wherein the program names in the first management data are managed corresponding to the program numbers of the plurality of programs, and the correlation between the program numbers and the program names is concomitantly edited when the linking is commanded.

--25. (Amended) An editing method for editing a program recorded on a recording medium that includes a program area for recording a plurality of programs and a management area within which is recorded first management data for managing program names for the plurality of recorded programs and

second management data including range information of program numbers making up each of a plurality of groups into which the plurality of recorded programs are collected, special codes partitioning the groups and group names, comprising the steps of:

commanding division of a predetermined group of the plurality of groups into two groups; and

editing a correlation of the range information and the group names when the division is commanded.

--26. (Amended) The editing method according to claim 25, wherein

when the division is commanded, a group name of the predetermined group is assigned to one of the two groups resulting from the division.

--27. (Amended) The editing method according to claim 25, wherein

when the division is commanded, a group name of an other of the two groups resulting from the division is blank.

--28. (Amended) An editing method for editing a program recorded on a recording medium that includes a program area for recording a plurality of programs and a management area within which is recorded first management data for managing program names for the plurality of programs and second management data including range information of program numbers

making up each of a plurality of groups into which the plurality of recorded programs are collected, special codes partitioning the groups and group names, comprising the steps of:

commanding linking of predetermined groups of the plurality of groups; and

editing a correlation of the range information and the group names to cause block movement of the predetermined groups when the linking is commanded.

--29. (Amended) The editing method according to claim 28, wherein

when the linking is commanded, a group name of a first group of the predetermined groups is assigned to the group resulting from the linking.

--30. (Amended) The editing method according to claim 28, wherein

when the linking is commanded, a group name of a last group of the predetermined groups is assigned to the group resulting from the linking.

--31. (Amended) The editing method according to claim 28, wherein

when the linking is commanded, a group name of a first group of the predetermined groups and a group name of a last group of the predetermined groups are linked and assigned to

the group resulting from the linking.

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--32. (Amended) An editing method for editing a program recorded on a recording medium that includes a program area for recording a plurality of programs and a management area within which is recorded first management data for managing program names for the plurality of recorded programs and second management data including range information of program numbers making up each of a plurality of groups into which the plurality of recorded programs are collected, special codes partitioning the groups and group names, comprising the steps of:

commanding a block erasure of predetermined groups of the plurality of groups; and

editing a correlation of the range information and the groups when the block erasure is commanded.--

REMARKS

Claims 1-32 remain in the application and have been amended hereby.

As will be noted from the Declaration, Applicants are citizens and residents of Japan and this application originated there.

Accordingly, the amendments to the specification are made to place the application in idiomatic English, and the claims are amended to place them in better condition for examination.

An early and favorable examination on the merits is